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ABSTRACT

This report analyzes occupational education in a New York City Borough with the purpose of providing an informational base for effective planning in this area. After reviewing population trends in the Borough of Richmond in general, and high school population in particular, the study describes the variety of occupational education programs available in the high schools of that borough. Employment opportunities are also analyzed with particular reference to the availability and student use of matching training programs in the schools. Included are tables delineating ethnic distribution of the population and student enrollments in different types of occupational education programs. (Author/WP)

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A Survey of

The Occupational Education Delivery System

in the

Borough of Richmond

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CENTER FOR
CAREER AND OCCUPATIONAL EDUCATION

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Board of Education of the City of New York
Division of Educational Curriculum and Instruction



A SURVEY OF
THE OCCUPATIONAL EDUCATION DELIVERY SYSTEM
in the
BOROUGH OF RICHMOND

May, 1979

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Acknowledgements

The surveys of each of the five boroughs were undertaken in recognition of the distinctiveness and individuality of the populations, the geography, and labor market needs of each of the boroughs. The size and diversity of New York City is such that a borough-by-borough data base is a necessity for the development of City-wide needs base and ultimately a Regional Plan.

The Borough surveys were initiated and implemented by the Unit for Planning, Evaluation and Research. Major responsibility for the development of the five documents was borne by Leonard Bozza and Eileen Pollack.

Other members of the Unit who contributed to the data collection and interpretation were Richard Halperin, Mildred Davison and William Spier. Ms. Mary Bay was responsible for the typing and production of the documents. She was assisted by Ms. Bessie Jones.

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CONTENTS

	<u>PAGE</u>
Introduction.....	v
General Population Trends - Borough of Richmond.....	1
TABLE I: Ethnic Distribution of the Population of.....	1
Richmond--1950-1970	
A) Richmond Population (1950, 1960, 1970)	
B) Percent Change in Richmond	
TABLE II: Ethnic Distribution of the City-Wide.....	1
Population--1950-1970	
A) City-Wide Population (1950, 1960, 1970)	
B) Percent Change City-Wide	
TABLE III: Ethnic Distribution in Richmond High Schools	
A) October 1976.....	3
B) October 1977.....	4
C) October 1978.....	5
Occupational Education Services.....	6
TABLE IV: Occupational Enrollments in Richmond High Schools.....	8
(By Cluster/School) Oct. 1978	
TABLE V: Percent of Occupational Education Enrollments.....	9
in Richmond Academic/Comprehensive High Schools	
TABLE VI: After School Occupational Skills Program.....	10
Richmond 1978	
Matching Training Resources to Employment Opportunity.....	11
TABLE VII: Home Economics Enrollments in the Borough of.....	16
Richmond (5 pds/wk)	
TABLE VIII: Industrial Arts Enrollments in the Borough of.....	17
Richmond (5 pds/wk)	
TABLE IX: Occupational Enrollments in Richmond High Schools.....	19
(By Course/School) Oct. 1978	
References and Sources of Information	

INTRODUCTION

This survey of the occupational education delivery services represents an initial step in the development of a Borough-wide plan. The surveys of the boroughs, will provide a solid informational base for effective borough-wide and city-wide planning to insure networks of updated and cost effective career and occupational education services.

Elements which have been included in this study include: a review of population trends in the entire Borough and in the High School population in particular for the period 1976 to present; population flow, (migration and out migration) special geographic features; transportation facilities; labor market information specific to the borough; assessments of the scope and nature of local business. An in-depth study of present facility and training resources has been made. This study provides a basis for assessing the potential training resources within the present school structure, as well as a detailed outline of the present scope of services.

Travel patterns have been studied as a bases for expanding training opportunities to students through more intensive use of quality facilities in the Borough.

Overall, an attempt has been made to assess the adequacy of present training resources, in relation to student and labor market needs. While a precise correspondence between training output and job market openings is neither practical, nor always reliable, a serious attempt has been made to perceive training need within the best available job market information.

GENERAL POPULATION TRENDS - THE BOROUGH OF RICHMOND

The total population of Richmond in 1970 was 295,443; an increase of 73,452 or 33% over the population in 1960. Even though the minority population has increased by 255% since 1950; it nevertheless remains less than 10% of the total Richmond population.

Of the 118,000 resident labor force 59,000 or 50% employed in the borough. The five leading employment areas in Richmond are:

21,000	Government
13,800	Wholesale trade
9,600	Manufacturing
9,500	Services
6,500	Construction

TABLE I: ETHNIC DISTRIBUTION OF THE POPULATION OF RICHMOND -- 1950-1970

A) RICHMOND POPULATION (1950, 1960, 1970)

<u>Year</u>	<u>Minority</u>	<u>%</u>	<u>"Other"</u>	<u>%</u>	<u>TOTAL</u>
1950	6,279	3.28	185,276	96.72	191,555
1960	12,532	5.65	209,459	94.35	221,991
1970	22,288	7.54	273,155	92.46	295,443

B) PERCENT CHANGE IN RICHMOND

	<u>Minority</u>	<u>"Other"</u>	<u>TOTAL</u>
1950-1970	+254.96	+47.43	+35.16

TABLE II: ETHNIC DISTRIBUTION of the CITYWIDE POPULATION--1950-1970

A) CITYWIDE POPULATION (1950, 1960, 1970)

<u>Year</u>	<u>Minority</u>	<u>%</u>	<u>"Other"</u>	<u>%</u>	<u>TOTAL</u>
1950	997,731	12.64	6,894,226	87.36	7,891,957
1960	1,682,901	21.63	6,099,083	78.37	7,781,984
1970	2,517,562	31.89	5,377,299	68.11	7,894,861

B) PERCENT CHANGE CITYWIDE

	<u>Minority</u>	<u>"Other"</u>	<u>TOTAL</u>
1950-1970	+152.33	-22.00	+0.04

Richmond Public High School Population

Since 1976, the overall population of the Richmond public high schools has remained approximately the same. Population in the academic/comprehensive high schools increased by only 0.59%, while the vocational high school population increased by 5.52%.

The minority population in the 5 academic/comprehensive high schools increased from 13.66% in 1976 to 15.49% in 1978; an increase of 1.83%.

The minority population in the only Richmond vocational high school has increased from 23.66% in 1976 to 25.18% in 1978; an increase of 1.52%.

Richmond Private High Schools

There are 9 private schools in the borough of Richmond which served a total of 5,741 students in grades 9 through 12 in the 1978-79 school year. This population, if added to the 17,479 enrolled in the academic/comprehensive and vocational high schools and the 567 in the independent alternative school represents 24.14% of all students attending Richmond high schools.

TABLE III A

ETHNIC DISTRIBUTION IN RICHMOND HIGH SCHOOLS
October 1976

	Minority	%	Other	%	Total
New Dorp	166	6.11	2,550	93.89	2,716
Port Richmond	488	17.99	2,224	82.01	2,712
Curtis	801	33.94	1,559	66.06	2,360
Tottenville	252	5.11	4,683	94.89	4,935
Susan E. Wagner	475	14.63	2,772	85.37	3,247
Total Acad./Comp.	2,182	13.66	13,788	86.34	15,970
McKee	317	23.66	1,023	76.34	1,340
Total Voc.	317	23.66	1,023	76.34	1,340
Ind. Alt.	156	27.04	421	72.96	577
GRAND TOTAL	2,655	14.84	15,232	85.16	17,887

TABLE III B

ETHNIC DISTRIBUTION IN RICHMOND HIGH SCHOOLS
October 1977

	Minority	%	Other	%	Total
New Dorp	185	6.89	2,499	93.11	2,684
Port Richmond	511	18.04	2,322	81.96	2,833
Curtis	870	38.12	1,412	61.88	2,282
Tottenville	257	5.27	4,618	94.73	4,875
Susan E. Wagner	497	15.80	2,649	84.20	3,146
Total Acad./Comp.	2,320	14.66	13,500	85.34	15,820
McKee	319	23.79	1,022	76.21	1,341
Total Voc.	319	23.79	1,022	76.21	1,341
Ind. Alt.	244	33.84	477	66.16	721
GRAND TOTAL	2,883	16.12	14,999	83.88	17,882

TABLE III C

ETHNIC DISTRIBUTION IN RICHMOND HIGH SCHOOLS
October 1978

	Minority	%	Other	%	Total
New Dorp	189	6.75	2,612	93.25	2,801
Port Richmond	532	17.84	2,450	82.16	2,982
Curtis	973	41.89	1,350	58.11	2,323
Tottenville	337	6.84	4,590	93.16	4,927
S.E. Wagner	457	15.07	2,575	84.93	3,032
Total Acad./Comp.	2,488	15.49	13,577	84.51	16,065
McKee	356	25.18	1,058	74.82	1,414
Total Voc.	356	25.18	1,058	74.82	1,414
Ind. Alt.	203	35.80	364	64.20	567
GRAND TOTAL	3,047	16.88	14,999	83.12	18,046

OCCUPATIONAL EDUCATION SERVICES

The delivery system for occupational education in the borough of Richmond includes Day high school programs, offered in five academic/comprehensive and one vocational high school. Students seeking training not available in their high schools are given the opportunity to receive training in selected areas through the Shared Instruction Program or the After School Occupational Skills Program.

DAY HIGH SCHOOLS

In the 1978-79 school year, the six schools served a combined population of 17,479 secondary students, and another 567 students in alternative schools for a total population of 18,046. 5,982 (33%) received occupational training in at least one of the seven occupational clusters (enrollments by cluster can be found in Table IV, pp. 8). 5,045 students received occupational training in the academic/comprehensive high schools; approximately 3,780 of those in the academic schools were enrolled in the Business and Distributive Education cluster.

A total of 937 students received occupational training at Ralph McKee Vocational High School; 775 of these were enrolled in programs in the Trade/Industry cluster.

The five academic/comprehensive high schools offered occupational training to 5,045 (31%) of the 16,065 students registered. Percentages of students receiving occupational education in the individual schools ranged from 4% in New Dorp High School to 48% at Curtis High School.

VOCATIONAL HIGH SCHOOL

A total of 1,414 students (grades 9 through 12) or 7.84% of the total Richmond high school population was enrolled in Ralph McKee Vocational High in October 1978.

SHARED INSTRUCTION PROGRAM (SIP)

The Shared Instruction Program provides opportunities for students to receive occupational training in areas which are not taught at their home schools. Students travel and participate in an instructional program offered at another high school during the regular school day.

At present, three Richmond high schools are serving students on a shared time basis: Curtis, Tottenville and McKee Vocational High Schools. Together, these schools served 189 students with 157 (83%) of them taking Trade/Industry courses at McKee Vocational, and 127 were enrolled in Cosmetology.

AFTER SCHOOL OCCUPATIONAL SKILLS PROGRAM (ASOSP)

The After School Occupational Skills Program provides opportunities for "disadvantaged" high school students to acquire entry-level skills in a selected number of occupational areas. Instruction is offered to students after the regular school day, on Saturdays, and/or in the summer on an open entry-open exit basis.

The ASOSP served 177 Richmond students during the summer of 1978 and 121 during the fall term. No eligible students were rejected from the program. However, general population students are not eligible for the program because categorical funding requires participants to be limited to the "disadvantaged".

The schools hosting After School programs in the 1978-79 school year are New Dorp and Tottenville High Schools.

With 67% of the borough's high school students not enrolled in any type of occupational education courses, the demand for alternative programs such as SIP and ASOSP is great. The ASOSP and the SIP programs in Richmond could probably serve many more students if facilities and funds were available with a coordinated effort to utilize school buses to provide needed transportation.

TABLE IV
OCCUPATIONAL ENROLLMENTS* IN RICHMOND HIGH SCHOOLS
(by Cluster/School)

October 1978

School	Agriculture	Business & Dist. Ed.**	Health	Home Economics	Industrial Arts	Trade Industry	Tech	TOTAL
New Dorp		103 (100)			20			120
Port Richmond		1,396 (800)	79	30				909
Curtis		1,535 (870)	236		15			1,121
φ Tottenville	143	2,544 (1,450)	206	63	18	317		2,197
Susan E. Wagner		992 (560)	138					698
TOTAL/ACAD/COMP	143	6,570 (3,780)	659	93	53	317		5,045
Ralph McKee		42 (20)				775	142	937
TOTAL VOC		42 (20)				775	142	937
GRAND TOTAL	143	6,612 (3,800)	659	93	53	1,092	142	5,982

*These figures do not include Exploratory courses. See table ix

**Most Business & Distributive Education students are enrolled in more than one course. The number in parentheses represents an estimated unduplicated student count.

TABLE V

PERCENT OF OCCUPATIONAL EDUCATION ENROLLMENTS
IN RICHMOND ACADEMIC COMPREHENSIVE HIGH SCHOOLS

	<u>Occ. Ed. Enrollments</u>	<u>Total Enrollments</u>	<u>Percent</u>
New Dorp	120	2,801	04.28
Port Richmond	909	2,982	30.48
Curtis	1,121	2,323	48.26
Tottenville	2,197	4,927	44.59
Susan E. Wagner	698	3,032	23.02
TOTAL	5,045	16,065	31.40

TABLE VI
After School Occupational Skills Program
(ASOSP)
Richmond
1978

Course	School	July	Enrollments October	TOTAL
Typing	New Dorp	36	25	61
Office & Skills & Management	New Dorp	28	16	44
Bookkeeping, Speedwriting & Stenography	New Dorp	35	40	75
Architectual & Mech. Draft	Tottenville	--	30	30
Graphic Arts/in Plant Printing	New Dorp	23	--	23
Mass Media/T.V. Prod.	Tottenville	28	--	28
Small Engine Repair	New Dorp	27	10	37
TOTALS		177	121	298

MATCHING TRAINING RESOURCES TO EMPLOYMENT OPPORTUNITY

AGRICULTURE and RELATED CLUSTERS

Richmond and surrounding communities in New Jersey and Brooklyn have many opportunities for employment in the areas of horticulture and landscaping. These opportunities exist because of the large number of residential areas, parks, highways and parkways.

Richmond is blessed with 5,420 acres of park and outdoor recreation land. This accounts for 13.6% of the total land usage.

The New York State Department of Labor's occupational projections for New York City 1974-1985 identified gardeners and groundskeepers as two of the three agriculture clusters that are expected to provide more than 100 annual openings. This projection appears to be modest in view of the Richmond continuing residential construction.

Instructional Programs

At present, Ornamental Horticulture is offered at Tottenville to twenty-one (21) students. Tottenville also provides instruction in Animal Care to fifty-nine (59) students and Oceanography to sixty-three (63) students.

Tottenville is the only Richmond school with occupational programs in the agriculture cluster.

BUSINESS EDUCATION

In 1970, 30,669 (29.5%) of the resident labor force was employed in clerical and kindred occupations. It would be safe to assume that many of these workers are among the 33,237 residents who travel into Manhattan to work. City-wide projections for clerical workers suggest that the job openings in this area are likely to remain relatively high.

Most openings will be for secretaries, bank tellers, clerical, supervisors and computer operators. Replacement opportunities will be greater for secretaries, stenographers, typists, bookkeepers and receptionists.

DISTRIBUTIVE EDUCATION

Retail and wholesale jobs in Richmond totaled 15,600 (22.5% of the 69,100 jobs in the borough). The Port of New York Authority projects that in 1985 there will be 25,200 jobs in these areas, (an increase of 9,600 jobs). These projections are consistent with the overall growth patterns of Richmond. An increase of 1,500 jobs in the areas of Finance Insurance and Real Estate by 1985, is expected.

Business Instructional Programs

Bookkeeping and Accounting is offered to 1,484 students in five high schools (including Ralph McKee Vocational High School), while Stenography is provided for a total of 974 students in all six high schools in Richmond.

General Office/Clerical/Typing is available in five schools (all but New Dorp High School) and in October 1978 served a total of 2,831 students. This course was, however, offered at New Dorp High School via the After School Occupational Skills Program. Data Processing is currently taught to 145 students at two Richmond high schools (Tottenville and Susan E. Wagner High Schools).

Distributive Education Instructional Programs

Tottenville High School offers General Merchandising and Sales, Service Station Management and Supermarket Management courses serve 130 students. Curtis offers General Merchandising and Sales to thirty-one (31) students.

SUMMARY - Business/Distributive Education

Considering the favorable outlook for the business, clerical and the wholesale/retail fields, and the difficulty for secondary students to travel outside of Richmond to receive instruction in these subjects, the need to expand course offerings in Richmond seems warranted.

HEALTH CAREERS

On a city-wide basis, jobs for medical workers are expected to be confined to professional and technical categories.

In the service worker category, (which is expected to account for 13% of total employment in 1979), only health service workers are expected to show some employment expansion. It is projected that there will be 1,800 average annual job openings due to growth and 5,100 job openings resulting from labor force separation.

With more than 1,000 hospital beds for general care and a host of related health facilities, the occupational outlook in the health area for Richmond seems promising.

Instructional Programs

A total of 659 students received Health-related occupational training in the borough of Richmond. Of these students, 196 were enrolled in Introduction to Health Careers classes at Curtis High School and Tottenville High School.

Health Assisting programs were offered to 114 students in Susan Wagner and Tottenville High Schools.

Medical or Bio. Technology courses were offered in Port Richmond, Susan E. Wagner and Tottenville High Schools. Together these courses served 174 students.

Practical Nursing was taught to 124 students at Curtis while Dental Assisting was offered to fifty-one (51) students at Tottenville High School.

No health courses were offered in Richmond as part of the ASOSP or the SIP.

The following programs are not offered in Richmond: Dental Lab Assisting, Dental Office Practice, Health Careers for Handicapped, Medical Lab Assisting, Medical Office Practices, and Nurse Assisting.

SUMMARY - Health Careers

Efforts to redirect high school students from nursing programs which offer little opportunity for employment to high school graduates should be continued. Offerings in related health service skills areas should provide practical alternatives to students seeking training in health careers.

HOME ECONOMICS

The Home Economics occupational clusters include Food Services, Clothing Services and Child Care Services.

Of the 69,100 persons employed in Richmond industry, 29% are working either in Food or Apparel occupations.

Instructional Programs

A total of ninety-three (93) students received Home Economics occupational training in Richmond last year. All 93 students were enrolled in food services programs either at Port Richmond High School or Tottenville High School.

Other training programs meeting the demand of the clothing industry and restaurant business are listed in the trade and industry section.

A total of 841 students were enrolled in five period per week Home Economics courses in Richmond high schools during the fall of 1978 (see Table VII). These courses are considered elective rather than occupational because they meet for fewer than 10 periods per week. Curtis High School has the smallest Home Economics program of all the borough high schools, serving fifty-four (54) students during the fall term.

INDUSTRIAL ARTS

Industrial Arts facilities are available in Richmond high schools for courses in Electricity/Electronics, Graphic Arts, Drafting, Metalworking, Plastics, Transportation, Woodworking and Jewelry.

While these facilities are found in many schools, most programs meet only 5 periods per week. A handful meet the standards for "occupational", defined as a course offered for ten periods per week or more. Schools offering occupational courses of ten periods per week or more in Industrial Arts facilities include:

Tottenville - Elect'y/onics	18	New Dorp - Graphic Arts	20
Curtis - Woodworking	15		

The total number of students who received occupational level training in Industrial Arts facilities in Richmond equaled fifty-three for the fall of '78.

In addition to these occupational programs, Industrial Arts facilities provided five period per week instruction to 2,579 students during the fall term (see Table VIII).

SUMMARY - Industrial Arts

Only 3 occupational Industrial Arts programs are offered at Richmond High Schools. While other shop facilities in these high schools could be utilized for occupational training only, those at Tottenville, are in use, serving 317 students in the trade/industry and technical areas.

Exemplary facilities exist at Tottenville and Susan Wagner High Schools. Steps should be considered to exploit these facilities for occupational (ten periods per week) instruction in the trade/industry and technical areas.

Curtis High School has the smallest Industrial Arts program in the borough with only 101 students enrolled during the fall of '78. The limited availability of training in the trade/industry and technical areas make this school the target of needed improvement.

Industrial Arts JHS

There are fifty (50) Industrial Arts facilities distributed among intermediate and junior high schools.

These facilities could be used to provide experiences and information that would help students make informed decisions regarding occupational choices on the high school level. While these facilities are sometimes used for this purpose, their potential for this service has by no measure been fulfilled.

A study of feeder patterns, the upgrading of select facilities, the co-ordinated programming of all junior high school industrial arts programs, and the preparation and dissemination of career information materials seem necessary steps towards improving the junior high school stage of the K-12 delivery system.

Industrial Arts facilities in Richmond intermediate and junior high schools are:

Woodworking	10	Plastics	1
Metalworking	8	Crafts	3
Graphic Arts	9	Drafting	1
Ceramics	9	Home Industries	1
Electricity	6	Aerospace	1
		Photography	1

Total No. of Facilities 50

Number of Facilities not in Use as of 3/78 7

Driver Education

Driver Education is an important component of a quality high school education. Driver Education programs provide students with a skill that is often a prerequisite for employment, especially in service occupations. The need for a driver's license to qualify for many employment opportunities in Richmond is beyond question.

In spite of the obvious value of driver education, no programs exist in any Richmond high school at this time. It should be noted that in 1974 Susan Wagner had the largest and most successful driver education program. During the 74-75 school year Susan Wagner HS provided driver education to approximately 620 students. Since then the program has steadily declined.

The elimination of driver education in the borough of Richmond is the direct result of the teacher cut backs.

TRADE/INDUSTRY and TECHNICAL

In 1970 Richmond had 19,400 jobs in the Manufacturing, Construction and Public utilities occupations. This number is expected to increase to 28,400 by 1985, with the largest increase (6,199) occurring in the construction field.

In 1970 Richmond had 176 manufacturing plants employing twenty or more employees. The growth of these plants is evidenced by the expenditures of 6,900,000 dollars for new plants and equipment.

Instructional Programs

Richmond's only vocational high school served 7.84% (1,414) of the borough's public secondary students in 1978, 775 of these students received instruction in Trade/Industry subjects. In addition, 142 students were enrolled in a Pre-Tech Engineering program (the only technical course offered).

Tottenville High School offers the only other trade and industry subjects. During the 78-79 school year Tottenville served a total of 317 students in this area. 254 of these students were enrolled in the Auto Mechanics program.

Twelve of the fifty trade/industry subjects are offered in Richmond while only one of the fourteen technical subjects is available in the borough.

SUMMARY - Trade/Industry and Technical

The demand for trade/industry and technical subjects appears to be strong as indicated by 161 students participated in trade/industry subjects on a shared time basis.

Expanded service in the trade/industry and technical subjects is warranted. Suitable facilities at all schools, especially those at Tottenville and Susan E. Wagner High Schools should be utilized to their fullest to achieve this expansion.

TABLE VII
HOME ECONOMICS ENROLLMENTS in the BOROUGH of RICHMOND
5 Periods per Week

<u>Course Offering</u>		NEW DROP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	RALPH MCKEE
Clothing	1	26	52			24	
	2						
	3						
Total Clothing		26	52			24	102
Foods	1	101	128	33	55	105	
	2	49	29	21	50		
Total Foods		150	157	54	105	105	571
Child Care	1	88					
	2		26				
Total Child Care		88	26				114
Other:							
Family Living	1						
	2						
Total Family Living							0
Needle Crafts							
Home Nursing	1		54				
	2						
Total Home Nursing			54				54
Bach. Survival							
Health Care							
Elem. Homemaking							
Consumer Ed.							
TOTAL 5 Pd/Wk Home Economics		264	289	54	105	129	841

TABLE VIII
INDUSTRIAL ARTS ENROLLMENTS in the BOROUGH of RICHMOND
5 Periods per Week

Course Offering	NEW DORP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	RALPH MCKEE
Aerospace 1						
2						
Total Aerospace						
Drafting 1	82	59		116	160	
2	24	22		80		
3						
4						
Total Drafting	106	81		196	160	543
Driver Education						
Electricity/Electronics 1		68		56	53	
2						
3						
4						
Total Electricity/Electronics		68		56	53	177
Graphic Arts 1		22		90	51	
2						
3						
4						
Total Graphic Arts		22		90	51	163
Industrial Careers						
Industrial Ceramics 1		84				
2						
Total Industrial Ceramics		84				84
Jewelry 1		31				
2						
Total Jewelry		31				31
Marine Technology 1						
2						
Total Marine Technology						0
Metal Working 1	27	114		26	69	
2		31				
3						
4						
Total Metal Working	27	145		26	69	267
Multi-Media				28		28
Photography 1	25			32		
2	40					
Total Photography	65			32		97

TABLE VIII
INDUSTRIAL ARTS ENROLLMENTS in the BOROUGH of RICHMOND
5 Periods per Week (Cont'd)

<u>Course Offering</u>	NEW DORP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	RALPH MCNEE	TOTAL
Plastics 1					79		
2							
Total Plastics					79		79
Transportation 1	76	117		61	128		
2		23					
3							
4							
Total Transportation	76	140		61	128		405
Small Engine Repair 1							
2							
Total Small Engine Repair							0
Woodworking 1		194	67	114	122		
2		23	34				
3							
4							
Total Woodworking	73	217	101	114	122		627
Other							
Metals COOP		17					17
Home Maintenance				28			28
COOP Industrial Arts				33			33
TOTAL 5 Pd/Wk INDUSTRIAL ARTS	347	805	101	664	662		2,579

Occupational Enrollments in Richmond
High Schools (By Course/School)
October 1978

TABLE IX
RICHMOND

	NEW DORP	PORT RICHMOND	ACADEMIC CURTIS	TOTTENVILLE	SUSAN E. WEGNER	V RALPH MOORE	IND. CONCORD HS	AUX. SERVICES
<u>AGRICULTURE</u>								
9th Year Explor. or Pre-Voc.								
Agric. Prod./Farm Mgt.								
Animal Care				59				59
Conservation								
Oceanography				63				63
Ornamental Horticulture				21				21
Other								
TOTALS				143				143
<u>BUSINESS & DISTRIBUTIVE ED.</u>								
<u>Business & Office Courses</u>								
Exploratory				101				101
Pre-Vocational (Required)		359	295	35	66			755
Bookkeeping & Accounting		160	412	690	210	12		1484
Data Processing				22	123			145
Gen. Office/Clerical/Typewriting		671	512	1138	489	21		2831
Information Communications								
Materials Supporting (Transporting, Storing, Recording)								
Stenographic, Secretarial	103	206	167	385	104	9		974
Supervisory & Administrative Mgt.								
Pre-Technical								
Office Related Technology			71	50				121
TOTAL	103	1396	1457	2421	992	42	27	6411
	(100)	(800)	(830)	(1420)	(560)	(20)		(3730)

Occupational Enrollments in Richmond
High Schools (By Course/School)
October 1978

TABLE IX
RICHMOND

	NEW DROP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	RALPH MCNEE	CONCORD HS	AUX. SERVICES
<u>BUSINESS & DISTRIBUTIVE ED. (Cont'd)</u>								
Distributive Ed. Courses			47	94				141
Exploratory								
Pre-Vocational (Required)								
Advertising Services								
Apparel & Accessories								
Auto/Petroleum/Serv. Station Mgt.				32				32
Finance & Credit								
Food Distrib./Supermarket Mgt.				36				36
Gen. March./Gen. Sales			31	62				93
Hardware, Materials, Supplies								
Home Furnishings (Sales)								
Hotel & Lodgings								
Insurance								
Real Estate								
Recreation & Tourism								
Transportation & Services								
Pre-Technical								
Other			78	224				302
TOTAL			(40)	(130)				(170)
TOTAL BUSINESS & DISTRIBUTIVE ED.	103	1,396	1,535	2,645	992	42		6,713
	(100)	(800)	(870)	(1,550)	(560)	(20)		(3,900)
<u>HEALTH CAREERS</u>								
9th Year or Exploratory								
Intro. to Health Careers			112	84				196
Med. or Bio. Lab Tech		79		19	76			174
Dental Assistant				51				51
Dental Lab Assistant								
Dental Office Practices								

Occupational Enrollments in Richmond
High Schools (By Course/School)
October 1978

TABLE IX
RICHMOND

	NEW DORS	ACADEMIC	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	V RALPH MOORE	IND. CONCORD HS	AUX. SERVICES
<u>HEALTH CAREERS (Cont'd)</u>									
Health Assistant/Health Service					52	62			114
Health Careers for the Handicapped									
Medical Lab Assistant									
Medical Office Practices									
Nurse Assistant									
Practical Nurse				124					124
Other									
TOTAL			79	236	206	138			659
<u>HOME ECONOMICS</u>									
HEOE Food Services			30		63				93
HEOE Clothing Services									
HEOE Child Care Services									
Other									
TOTAL			30		63				93
<u>INDUSTRIAL ARTS</u>									
Aerospace									
Drafting									
Driver Education									
Electricity/Electronics					18				18
Graphic Arts	20								20
Industrial Careers									
Industrial Ceramics									
Jewelry									
Marine Technology									
Metalworking									
Multi-Media									
Photography									
Plastics									
Transportation									
Small Engine Repair									

Occupational Enrollments in Richmond
High School (By Course/School)
October 1978

TABLE IX

RICHMOND

INDUSTRIAL ARTS (Cont'd)

	NEW DORP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUEAN E. WAGNER	RALPH MCNEE	CONCORD HS	AUX. SERVICES	
Woodworking			15						15
Other									
TOTAL	20		15	18					53

TECHNICAL

9th Year Exploratory or Pre-Voc.									
Aviation: Aeronautics Tech.									
Draft'g/Draw'g: Architectural									
Draft'g/Draw'g: Elec. or Mech.									
Chemical Tech (Indus. Chem)									
Civil Tech (Struc. Des.)									
Elect'y/onics: Communications									
Elect'y/onics: Computer Tech.									
Elect'y/onics: Elect'y/onics									
Fashion: Fashion Design Tech.									
Industrial Design									
Instrumentation Design									
Machine Design									
Pre-Technical Engineering						142			142
Other									
TOTAL						142			142

TRADE/INDUSTRY

9th Year Exploratory or Pre-Voc.						240		240
Auto.: Automotive Body			35					35
Auto.: Automotive Mech.			254			136		390
Auto.: Service Stat. Attend't								
Aviation: Aviation Mechanics								
Aviation: Ground Suppt. Veh. Maint.								
Bldg/Constr: Cabinet Making				28		49		77
Bldg/Constr: Carpentry								
Bldg/Constr: Plumbing						51		51
Bldg/Constr: Woodworking						50		50

Occupational Enrollments in Richmond
High Schools (By Course/School)
October 1978

TABLE IX

RICHMOND

	NEW DORP	PORT RICHMOND	ACADEMIC	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	V	IND.	AUX. SERVICES
TRADE/INDUSTRY (Cont'd)									
Clock and Watch Mch.									
Commercial Art									
Commercial Photography									
Cosmetology							159		159
Dental Lab Processing									
Elect'y/onics: Elec. Instal & Prac.							133		133
Elect'y/onics: Radio Electr. Mech.									
Elect'y/onics: Radio & TV Mech.									
Elect'y/onics: TV Broadcasting									
Electro-Mech: Appl/Equip. Rpr.									
Electro-Mech: Ind. Machine Rpr.									
Envir. Contr.: Automatic Heating									
Envir. Contr.: Climate Control									
Envir. Contr.: Comm/Domest. Refrig.							30		30
Fashion: Costume Des/Illus/Drp'g									
Fashion: Fashion Design (Voc)									
Fashion: Fashion Merchandising									
Fashion: Fur Mfr.									
Fashion: Men's Clothing Mfr.									
Fashion: Textile Des.& Weaving									
Fashion: Women's Apparel Mfr.									
Food: Baking									
Food: Cafeteria & Catering									
Food: Meat Merchandising									
Graphic Arts & Communication									
Interior Decoration									
Jewelry Design & Mfr.									
Mach/Metal: Machine Shop Prac.							52		52
Mach/Metal: Sheet Metal									
Marine Occupations									
Movie/TV Production									
Optical Mechanics									
Printing Trades							60		60

Occupational Enrollments in Richmond
High Schools (By Course/School)
October 1978

TABLE IX
RICHMOND

			<u>ACADEMIC</u>			<u>V</u>	<u>IND.</u>	
	NEW DORP	PORT RICHMOND	CURTIS	TOTTENVILLE	SUSAN E. WAGNER	RALPH MCKEE	CONCORD HS	AUX. SERVICES
<u>TRADE & INDUSTRY (Cont'd)</u>								
Sculpture & Stone Carving								
Upholstery						55		55
Other				317		1015		1332
TOTAL								
<u>GRAND TOTALS</u>	120	909	1121	2297	698	1177		6322

REFERENCES AND SOURCES OF INFORMATION

- Statistical Guide - Staten Island, New York
- School Profiles; New York City Board of Education 1976-1977
- Form 11: Analysis of School Organization Register by Courses and Terms; CCOE, New York City Board of Education
- Annual School Census - October, 1977; October, 1978
- Pupil Ethnic Composition Report; Office of Educational Statistics, New York City Board of Education
- Transportation Information; New York City Transit Authority

Information was supplied through the cooperation of the following Offices:

After School Occupational Skills Program

Shared Instruction Program

Home Economics

Industrial Arts

Trade and Technical

Health Careers

Business and Distributive Education